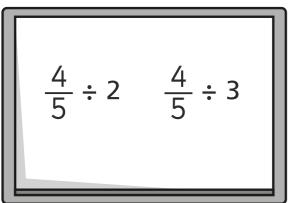
Divide fractions by integers (2)



1

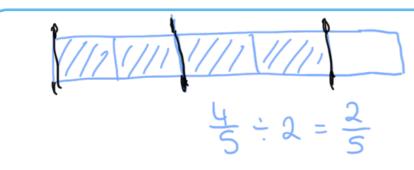


a) Write two things that are the same about the calculations.

e.a.	They	are	both	dúr	iscons,	ı
U	_ J	1			4	
	Theu	both	cont	ain	5	

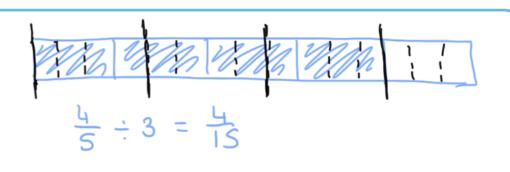
b) Write one thing that is different about the calculations.

c) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 2$





d) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 3$



2 Complete the divisions using the diagrams to help you.

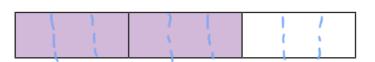
a)
$$\frac{1}{3} \div 2 = \boxed{\frac{1}{6}}$$



b)
$$\frac{1}{3} \div 3 = \boxed{\frac{1}{9}}$$



c)
$$\frac{2}{3} \div 3 = \boxed{\frac{2}{9}}$$



 $\frac{3}{4}$ of a kilogram of rice is divided equally between two bowls.



How much rice is in each bowl?

4 Work out the divisions.

a)
$$\frac{1}{5} \div 7 = \boxed{\frac{1}{35}}$$

f)
$$\frac{5}{72} = \frac{5}{6} \div 12$$

b)
$$\left| \frac{1}{18} \right| = \frac{1}{6} \div 3$$

g)
$$\frac{8}{3} \div 7 = \frac{8}{21}$$

c)
$$\frac{1}{4} \div 9 = \boxed{\frac{1}{36}}$$

h)
$$\frac{19}{100} = \frac{19}{20} \div 5$$

d)
$$\frac{1}{42} = \frac{1}{7} \div 6$$

i)
$$\frac{1}{100} \div 25 = \frac{1}{2500}$$

e)
$$\frac{4}{9} \div 7 = \boxed{\frac{4}{63}}$$

j)
$$\frac{9}{200} = \frac{45}{50} \div 20$$

5 Write <, > or = to complete each statement.

a)
$$\frac{1}{3} \div 5$$
 $\left(\begin{array}{c} \\ \\ \end{array}\right)$ $\frac{1}{5} \div \frac{1}{5}$

b)
$$\frac{1}{3} \div 3$$
 (7) $\frac{1}{5} \div 5$

c)
$$\frac{3}{5} \div 5$$
 $()$ $\frac{3}{5} \div 3$

There are some cones in the PE shed.

Classes 1, 2 and 3 share them equally.

• Class 1 put theirs into 4 equal piles.



• Class 3 put theirs into 11 equal piles.

What fraction of the whole number of cones is in each pile?

	Fraction in each pile
Class 1	2-1
Class 2	<u> </u> 15
Class 3	<u></u> 33

a) Which of these statements are true? Tick your answers.

$$\frac{1}{2} \div 2$$
 is equal to $\frac{1}{2} \times \frac{1}{2}$

$$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4}$$



$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3}$$

$$\frac{1}{2} \div 5 = \frac{1}{2} \times \frac{1}{5}$$

b) What do you notice?

Is it only true for halves?

Does it work for non-unit fractions?

Talk to a partner.



